TITLE: OPTICAL RECORDING MEDIUM COPYING APPARATUS AND METHOD THEREFOR
INVENTORS: Young-Sig KWON
SERIAL NO.:
DOCKET NO.: 17931008

FIG. 1 (PRIOR ART)

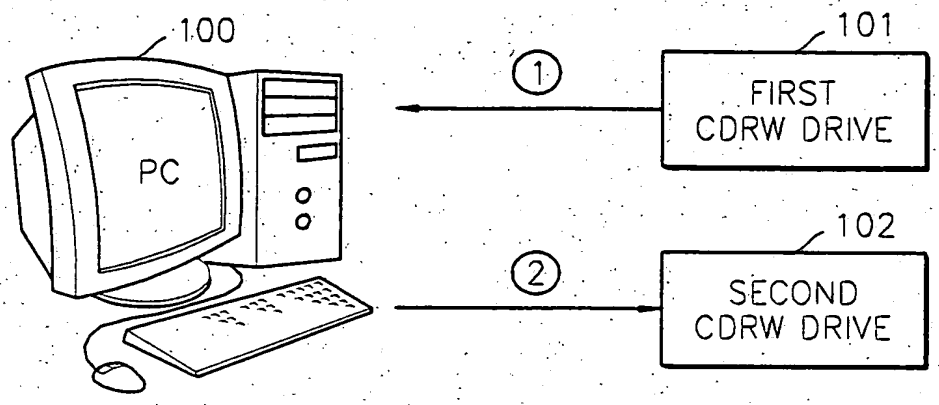

FIG. 2 (PRIOR ART)

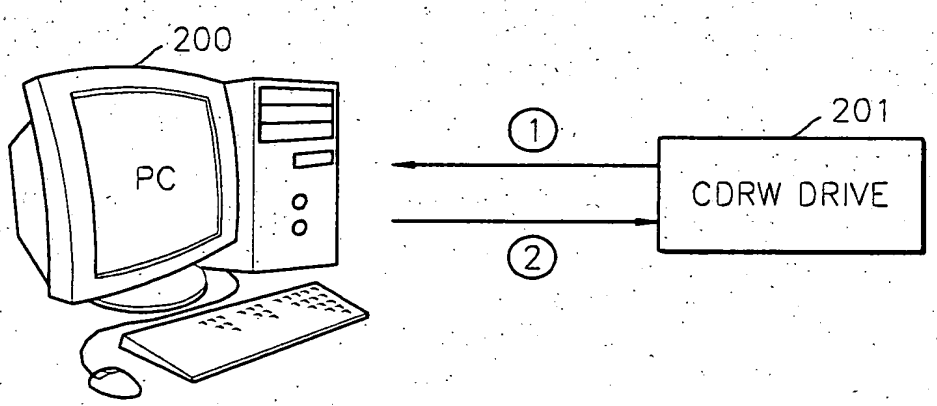

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FIG. 3

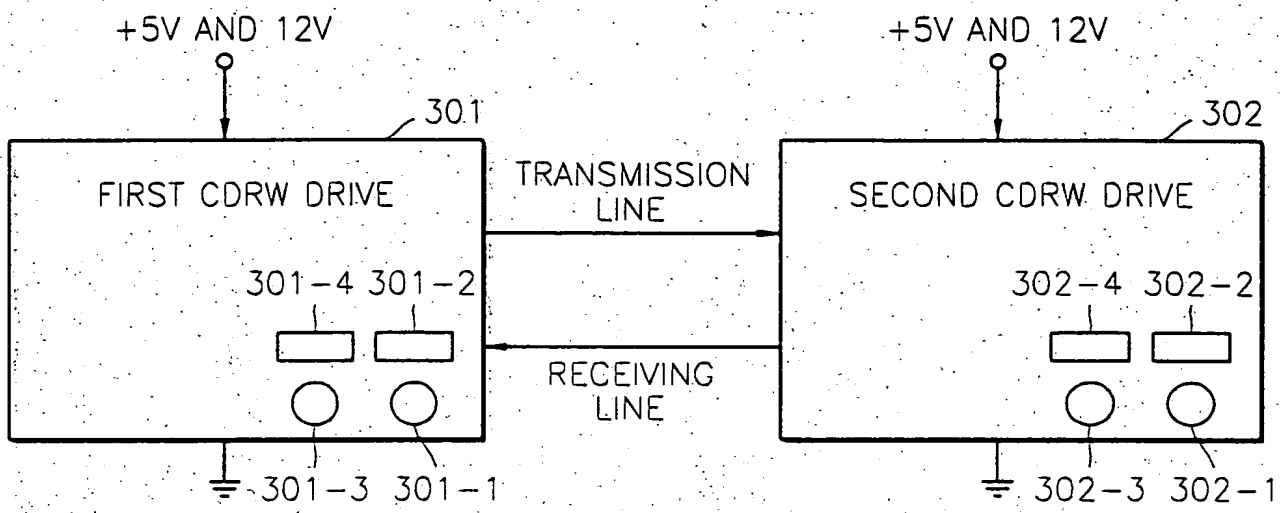

FIG. 4

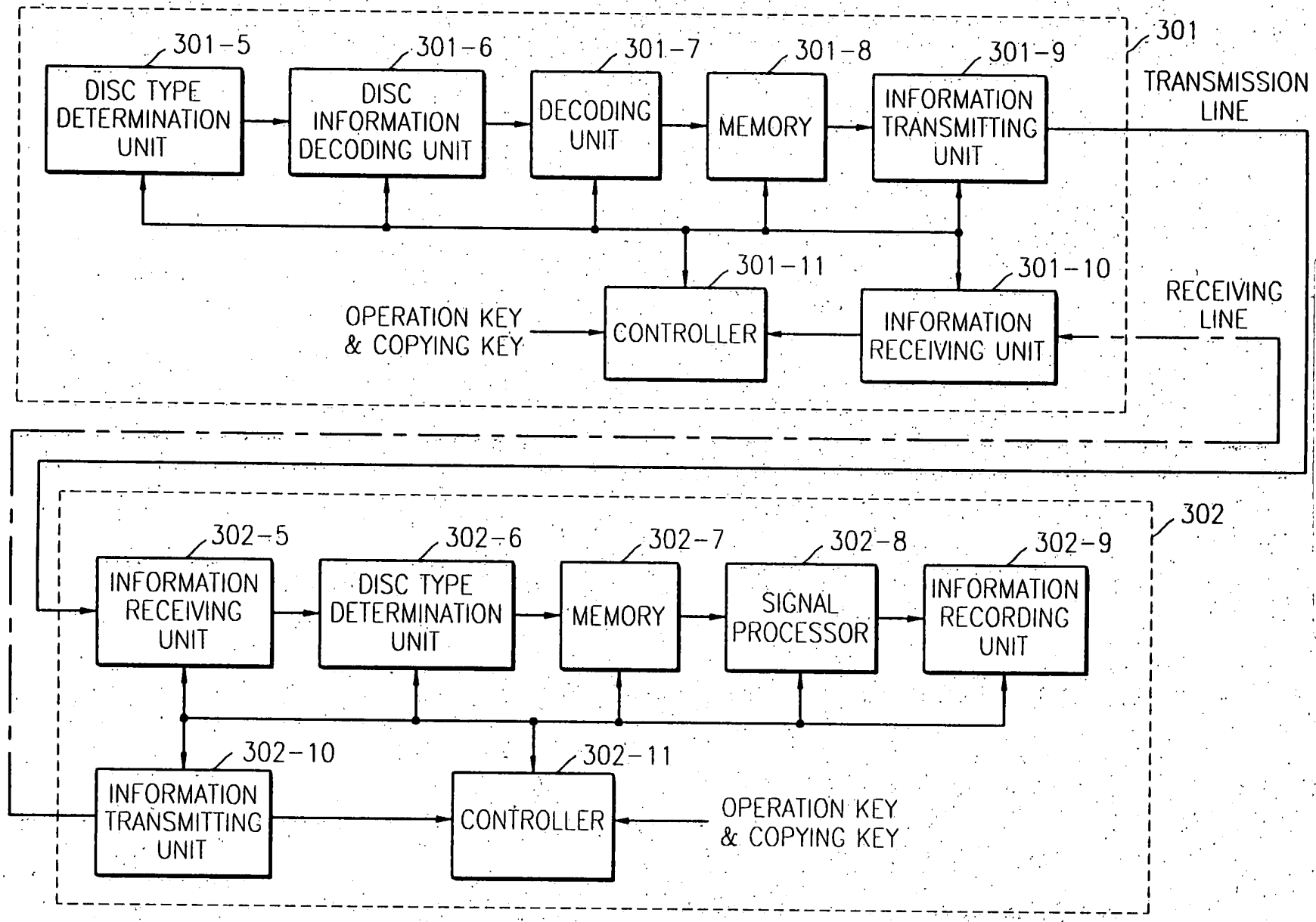

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FIG. 5A

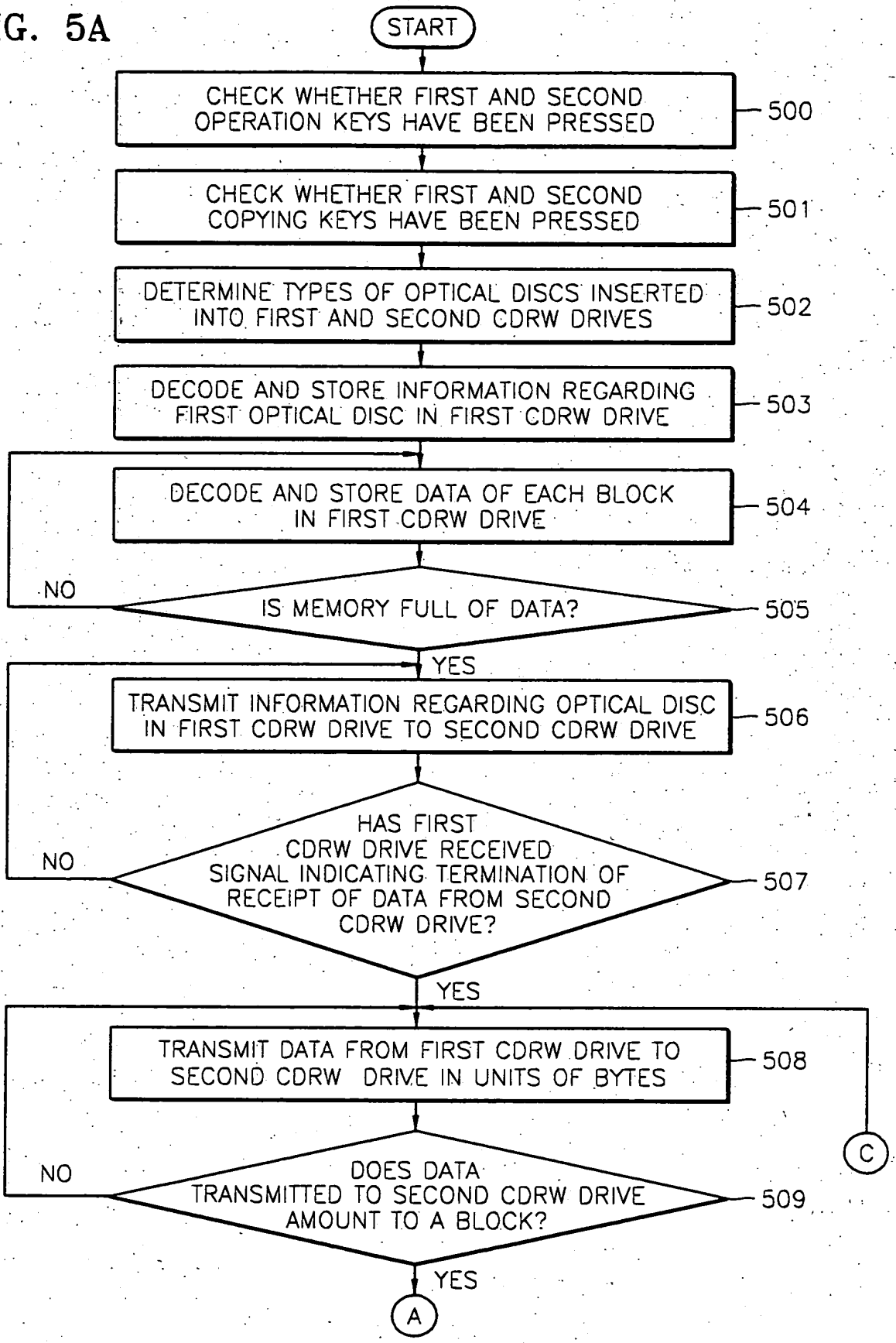
START
CHECK WHETHER FIRST AND SECOND OPERATION KEYS HAVE BEEN PRESSED
500
CHECK WHETHER FIRST AND SECOND COPYING KEYS HAVE BEEN PRESSED
501
DETERMINE TYPES OF OPTICAL DISCS INSERTED INTO FIRST AND SECOND CDRW DRIVES
502
DECODE AND STORE INFORMATION REGARDING FIRST OPTICAL DISC IN FIRST CDRW DRIVE
503
DECODE AND STORE DATA OF EACH BLOCK IN FIRST CDRW DRIVE
504
NO
IS MEMORY FULL OF DATA?
505
YES
TRANSMIT INFORMATION REGARDING OPTICAL DISC IN FIRST CDRW DRIVE TO SECOND CDRW DRIVE
506
NO
HAS FIRST CDRW DRIVE RECEIVED SIGNAL INDICATING TERMINATION OF RECEIPT OF DATA FROM SECOND CDRW DRIVE?
507
YES
TRANSMIT DATA FROM FIRST CDRW DRIVE TO SECOND CDRW DRIVE IN UNITS OF BYTES
508
C
NO
DOES DATA TRANSMITTED TO SECOND CDRW DRIVE AMOUNT TO A BLOCK?
509
YES
A

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FIG. 5B

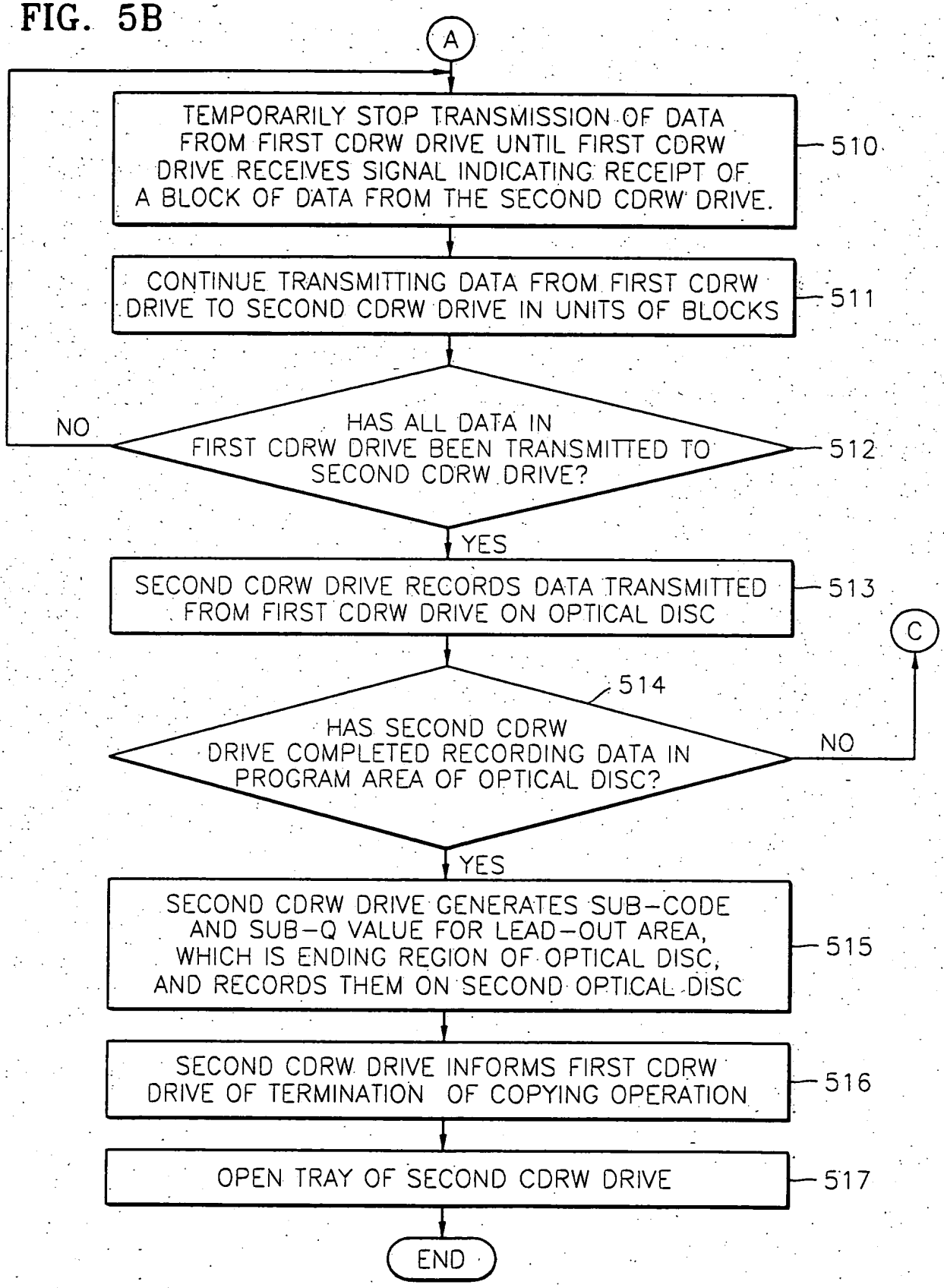
A
TEMPORARILY STOP TRANSMISSION OF DATA FROM FIRST CDRW DRIVE UNTIL FIRST CDRW DRIVE RECEIVES SIGNAL INDICATING RECEIPT OF A BLOCK OF DATA FROM THE SECOND CDRW DRIVE.
510
CONTINUE TRANSMITTING DATA FROM FIRST CDRW DRIVE TO SECOND CDRW DRIVE IN UNITS OF BLOCKS
511
NO
HAS ALL DATA IN FIRST CDRW DRIVE BEEN TRANSMITTED TO SECOND CDRW DRIVE?
512
YES
SECOND CDRW DRIVE RECORDS DATA TRANSMITTED FROM FIRST CDRW DRIVE ON OPTICAL DISC
513
C
514
HAS SECOND CDRW DRIVE COMPLETED RECORDING DATA IN PROGRAM AREA OF OPTICAL DISC?
NO
YES
SECOND CDRW DRIVE GENERATES SUB-CODE AND SUB-Q VALUE FOR LEAD-OUT AREA, WHICH IS ENDING REGION OF OPTICAL DISC, AND RECORDS THEM ON SECOND OPTICAL DISC
515
SECOND CDRW DRIVE INFORMS FIRST CDRW DRIVE OF TERMINATION OF COPYING OPERATION
516
OPEN TRAY OF SECOND CDRW DRIVE
517
END

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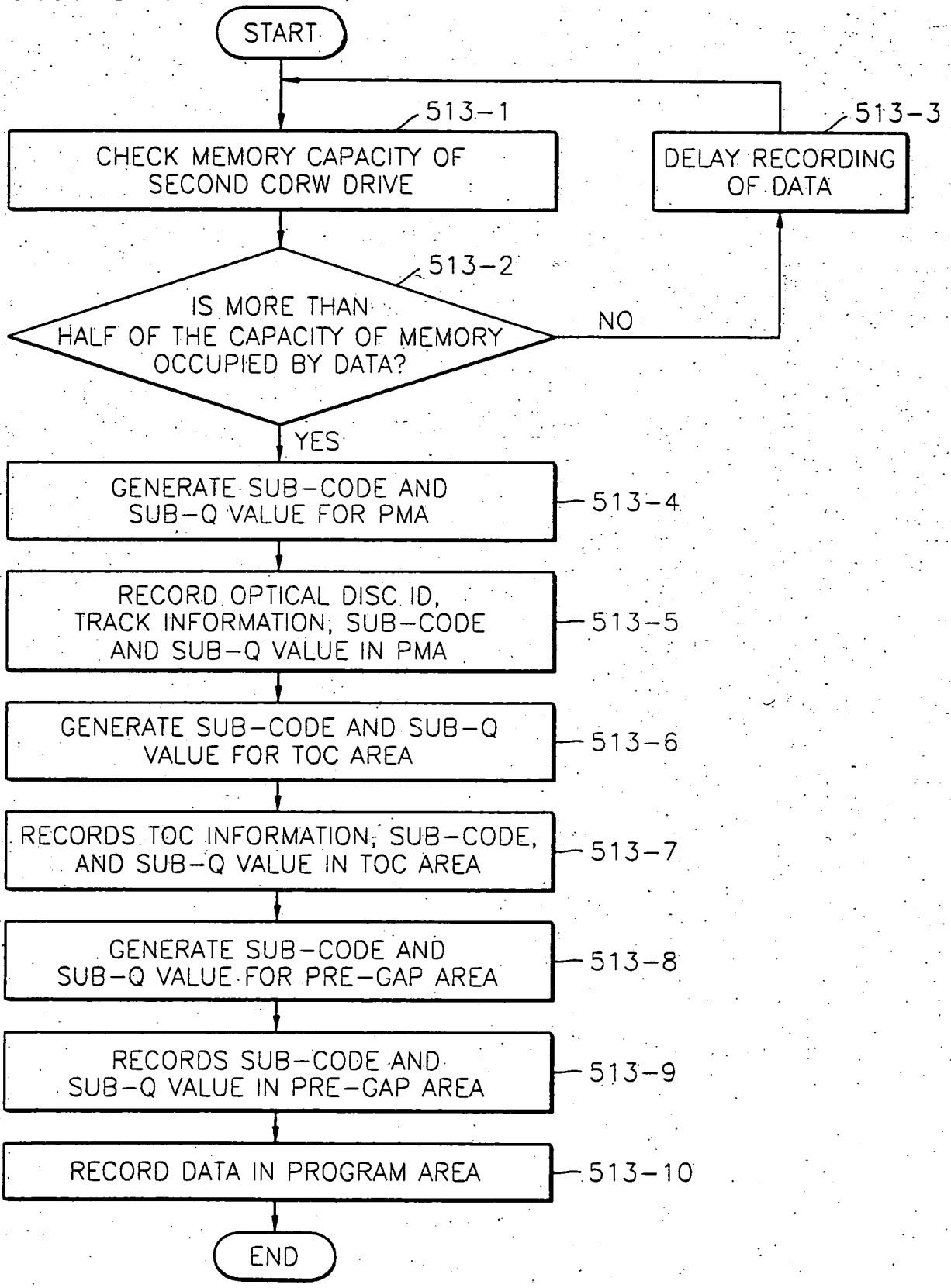
FIG. 6


START
513-1
CHECK MEMORY CAPACITY OF SECOND CDRW DRIVE
513-3
DELAY RECORDING OF DATA
513-2
IS MORE THAN HALF OF THE CAPACITY OF MEMORY OCCUPIED BY DATA?
NO
YES
GENERATE SUB-CODE AND SUB-Q VALUE FOR PMA
513-4
RECORD OPTICAL DISC ID, TRACK INFORMATION, SUB-CODE AND SUB-Q VALUE IN PMA
513-5
GENERATE SUB-CODE AND SUB-Q VALUE FOR TOC AREA
513-6
RECORDS TOC INFORMATION, SUB-CODE, AND SUB-Q VALUE IN TOC AREA
513-7
GENERATE SUB-CODE AND SUB-Q VALUE FOR PRE-GAP AREA
513-8
RECORDS SUB-CODE AND SUB-Q VALUE IN PRE-GAP AREA
513-9
RECORD DATA IN PROGRAM AREA
513-10
END